

Motor Vehicle Air-Conditioning Manufacturing: 2002

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2002 Economic Census

Manufacturing

Industry Series



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U.S. Department of Commerce
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-- Not applicable for this report.

Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year ¹	Com- panies ²	All estab- lish- ments ³	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)	
			Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)					
336391, Motor vehicle air-conditioning manufacturing	2002..	74	81	17 551	857 728	14 065	28 286	634 988	2 438 264	3 546 791	5 987 666	204 698
	2001..	N	N	19 594	1 054 336	16 031	32 042	799 321	2 323 892	3 287 899	5 623 073	248 486
	2000..	N	N	20 393	1 058 060	16 880	35 301	797 107	2 175 068	3 173 022	5 364 668	243 141
	1999..	N	N	21 477	1 169 656	17 829	39 831	886 614	2 713 599	3 363 162	6 065 425	360 823
	1998..	N	N	21 310	999 087	17 402	38 405	755 741	2 606 692	3 001 970	5 568 484	259 407
	1997..	58	60	21 522	1 053 943	17 504	38 953	821 334	2 701 288	2 875 912	5 626 596	188 566

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
336391, Motor vehicle air-conditioning manufacturing												
United States	—	81	42	17 551	857 728	14 065	28 286	634 988	2 438 264	3 546 791	5 987 666	204 698
Michigan	—	7	7	3 436	189 506	2 737	5 743	143 715	801 926	1 209 590	2 010 601	62 478
Ohio	—	7	5	2 364	105 613	1 959	4 037	84 839	635 732	386 538	1 018 077	34 204
Pennsylvania	—	4	3	225	11 010	116	216	3 936	34 395	53 871	88 495	1 440
Texas	—	23	10	2 013	72 839	1 574	1 982	44 740	149 370	457 796	614 210	39 113

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
336391, Motor vehicle air-conditioning manufacturing	
Companies ¹	number.. 74
All establishments ²	number.. 81
Establishments with 1 to 19 employees	number.. 39
Establishments with 20 to 99 employees	number.. 18
Establishments with 100 employees or more	number.. 24
All employees ³	number.. 17 551
Total compensation	\$1,000.. 1 307 687
Annual payroll	\$1,000.. 857 728
Total fringe benefits	\$1,000.. 449 959
Production workers, average for year	number.. 14 065
Production workers on March 12	number.. 15 469
Production workers on May 12	number.. 13 853
Production workers on August 12	number.. 13 668
Production workers on November 12	number.. 13 259
Production worker hours	1,000.. 28 286
Production worker wages	\$1,000.. 634 988
Total cost of materials	\$1,000.. 3 546 791
Materials, parts, containers, packaging, etc., used	\$1,000.. 3 085 955
Resales	\$1,000.. 375 478
Purchased fuels	\$1,000.. 9 669
Purchased electricity	\$1,000.. 57 947
Contract work	\$1,000.. 17 742
Quantity of electricity purchased for heat and power	1,000 kWh.. 1 634 751
Quantity of electricity generated less sold for heat and power	1,000 kWh.. -
Total value of shipments	\$1,000.. 5 987 666
Primary products value of shipments	\$1,000.. 4 599 209
Secondary products value of shipments	\$1,000.. 949 057
Total miscellaneous receipts	\$1,000.. 439 400
Value of resales	\$1,000.. 432 065
Contract receipts	\$1,000.. -
Other miscellaneous receipts	\$1,000.. 7 335
Primary products specialization ratio	percent.. 83
Value of primary products shipments made in all industries	\$1,000.. 4 664 229
Value of primary products shipments made in this industry	\$1,000.. 4 599 209
Value of primary products shipments made in other industries	\$1,000.. 65 020
Coverage ratio	percent.. 99
Value added	\$1,000.. 2 438 264
Total inventories, beginning of year	\$1,000.. 384 037
Finished goods inventories	\$1,000.. 118 177
Work-in-process inventories	\$1,000.. 77 907
Materials and supplies inventories	\$1,000.. 187 953
Total inventories, end of year	\$1,000.. 385 502
Finished goods inventories	\$1,000.. 109 833
Work-in-process inventories	\$1,000.. 83 640
Materials and supplies inventories	\$1,000.. 192 029
Gross value of depreciable assets (acquisition costs) at beginning of year	\$1,000.. 2 690 727
Total capital expenditures (new and used)	\$1,000.. 204 698
Buildings and other structures (new and used)	\$1,000.. 11 222
Machinery and equipment (new and used)	\$1,000.. 193 476
Automobiles, trucks, etc., for highway use	\$1,000.. 3 675
Computers and peripheral data processing equipment	\$1,000.. 8 099
All other expenditures for machinery and equipment	\$1,000.. 181 702
Total retirements	\$1,000.. 373 639
Gross value of depreciable assets at end of year	\$1,000.. 2 521 786
Depreciation charges during year	\$1,000.. 155 588
Total rental payments	\$1,000.. 26 545
Buildings and other structures	\$1,000.. 11 160
Machinery and equipment	\$1,000.. 15 385
Total other expenses ⁴	\$1,000.. 234 695
Response coverage ratio ⁵	percent.. 94
Repair and maintenance services of buildings and/or machinery ⁴	\$1,000.. 37 213
Communications services ⁴	\$1,000.. 1 686
Legal services ⁴	\$1,000.. 778
Accounting, auditing, and bookkeeping services ⁴	\$1,000.. 946
Advertising and promotional services ⁴	\$1,000.. 1 591
Expensed computer hardware and supplies and purchased computer services ⁴	\$1,000.. 33 257
Refuse removal (including hazardous waste) services ⁴	\$1,000.. 1 612
Management consulting and administrative services ⁴	\$1,000.. 11 121
Taxes and license fees ⁴	\$1,000.. 10 763
All other expenses ⁴	\$1,000.. 135 728

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Based on Annual Survey of Manufactures (ASM) sample data.

⁵A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E ¹	All establishments ²	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
336391, Motor vehicle air-conditioning manufacturing											
All establishments	—	81	17 551	857 728	14 065	28 286	634 988	2 438 264	3 546 791	5 987 666	204 698
Establishments with—											
1 to 4 employees	9	25	58	3 081	49	95	2 327	4 651	4 781	9 435	579
5 to 9 employees	8	8	50	2 838	43	88	2 192	4 943	4 529	9 472	550
10 to 19 employees	6	6	77	3 215	57	98	2 234	6 687	7 436	14 040	673
20 to 49 employees	1	12	375	19 611	255	458	9 208	33 151	65 704	95 478	7 082
50 to 99 employees	1	6	381	14 368	249	506	7 180	30 977	29 767	61 004	2 412
100 to 249 employees	—	14	2 310	95 750	1 861	3 892	67 272	369 693	499 559	869 129	14 348
250 to 499 employees	—	1	e	D	D	D	D	D	D	D	D
500 to 999 employees	—	5	h	D	D	D	D	D	D	D	D
1,000 to 2,499 employees	—	2	h	D	D	D	D	D	D	D	D
2,500 employees or more	—	2	i	D	D	D	D	D	D	D	D
Administrative records ⁴	9	31	157	9 033	137	280	6 940	13 867	14 375	28 242	1 737

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments ¹	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				
336391	Motor vehicle air-conditioning manufacturing	81	17 551	857 728	14 065	28 286	634 988	2 438 264	3 546 791	5 987 666	204 698
3363917	Motor vehicle mechanical air-conditioning systems	34	10 401	543 205	8 346	17 797	407 680	1 977 809	2 010 815	3 986 741	73 987
336391B	Automotive air-conditioning compressors (open-type, with or without motor)	16	7 018	307 106	5 605	10 265	221 627	451 274	1 526 441	1 982 209	129 552

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6a. **Products Statistics: 2002 and 1997**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
336391	Motor vehicle air-conditioning manufacturing	2002.. N	X	X	4 664 229
	1997.. N		X	X	4 225 742
3363917	Motor vehicle mechanical air-conditioning systems	2002.. N	X	X	2 940 311
	1997.. N		X	X	2 266 279
33639171	Motor vehicle mechanical air-conditioning systems	2002.. N	X	X	2 940 311
	1997.. N		X	X	2 266 279
3363917110	Motor vehicle mechanical air-conditioning systems for passenger automobiles ¹	2002.. 21	X	X	2 149 296
	1997.. 21		X	X	1 592 434
3363917120	Motor vehicle mechanical air-conditioning systems for buses ¹	2002.. 9	X	X	162 909
	1997.. 9		X	X	143 004
3363917130	Other motor vehicle mechanical air-condition systems ¹	2002.. 14	X	X	628 106
	1997.. 12		X	X	530 841
3363917Y	Motor vehicle mechanical air-conditioning systems, nsk	2002.. N	X	X	—
	1997.. N		X	X	—
3363917YVW	Motor vehicle mechanical air-conditioning systems, nsk	2002.. N	X	X	—
	1997.. N		X	X	—
336391B	Automotive air-conditioning compressors (open-type, with or without motor)	2002.. N	X	X	1 707 182
	1997.. N		X	X	1 937 805
336391B1	Automotive air-conditioning compressors (open-type, with or without motor)	2002.. N	X	X	1 707 182
	1997.. N		X	X	1 937 805
336391B100	Automotive air-conditioning compressors (open-type, with or without motor) ¹	2002.. 22	X	X	1 707 182
	1997.. 13		X	X	1 937 805
336391W	Motor vehicle air-conditioning manufacturing, nsk, total	2002.. N	X	X	16 736
	1997.. N		X	X	21 658
336391WY	Motor vehicle air-conditioning manufacturing, nsk, total	2002.. N	X	X	16 736
	1997.. N		X	X	21 658
336391WYWW	Motor vehicle air-conditioning manufacturing, nsk, for nonadministrative-record establishments	2002.. N	X	X	58
	1997.. N		X	X	160
336391WYWY	Motor vehicle air-conditioning manufacturing, nsk, for administrative-record establishments	2002.. N	X	X	16 678
	1997.. N		X	X	21 498

¹For additional detail, see Current Industrial Report MA333M, Refrigeration and Heating Equipment.

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p—10 to 19 percent estimated; q—20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. Product Class Shipments for Selected States: 2002 and 1997

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3363917	Motor vehicle mechanical air-conditioning systems	
	United States..... 2002..	2 940 311
	..... 1997..	2 266 279
	Michigan..... 2002..	983 081
	..... 1997..	N
	Texas..... 2002..	88 673
	..... 1997..	61 200
336391B	Automotive air-conditioning compressors (open-type, with or without motor)	
	United States..... 2002..	1 707 182
	..... 1997..	1 937 805
	..... 1997..	N
	Texas..... 2002..	396 763
	..... 1997..	N

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
336391	Motor vehicle air-conditioning manufacturing		
00900001	Total materials	X	3 085 955
001900A6	Refrigeration compressors, compressor units, condensing units, and other heat transfer equipment	X	2 628 866
33531209	Fractional horsepower electric timing motors, synchronous and subsynchronous (less than 1 hp)	X	568 475
33531223	Fractional horsepower electric motors (less than 1 hp), excluding timing motors	X	465 873
33531221	Integral horsepower electric motors and generators (1 hp or more)	X	2 880
33341200	Fans and blowers	X	D
001900B1	Electrical transmission, distribution, and control equipment	X	D
33593101	Current-carrying wiring devices	X	D
33451200	Automatic temperature controls (thermostats, regulators, etc.)	X	10 246
33299101	Ball and roller bearings (mounted or unmounted)	X	21 629
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	8 182
332000AC	Metal stampings	X	D
33251005	Metal hardware (including hinges, handles, locks, casters, etc.)	X	D
33291901	Metal pipe, valves, and pipe fittings (excluding forgings)	X	D
33200053	All other fabricated metal products (excluding forgings)	X	17 460
33210000	Forgings	X	9 738
33151001	Iron and steel castings (rough and semifinished)	X	D
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	X	D
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	58 735
33120016	Steel sheet and strip (including tinplate)	X	N
33120025	Steel wire and wire products	X	D
33120035	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	15 728
33142135	Copper and copper-base alloy pipe and tube (excluding castings, forgings, and fabricated metal products)	X	13 767
33142141	All other copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	5 707
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing	X	N
33100055	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	D
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products)	X	D
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	X	3 680
32192003	Wooden containers, complete (including combination wood and paperboard)	X	N
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	X	18 208
32510027	Refrigerant gases and other synthetic organic chemicals	X	10 182
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	D
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	X	723
32610007	Fabricated plastics products (excluding gaskets, hoses, and belting)	X	2 307
32622001	Rubber and plastics hose and belting	X	N
33999101	Gaskets (all types) and asbestos packing	X	2 628
32799301	Mineral wool insulation (fibrous glass, rock wool, etc.)	X	D
00970099	All other materials and components, parts, containers, and supplies	X	D
00971000	Materials, ingredients, containers, and supplies, nsk	X	861 224
		X	750 062
		X	17 282
		X	22 726

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.